

PATENT ABSTRACTS OF JAPAN

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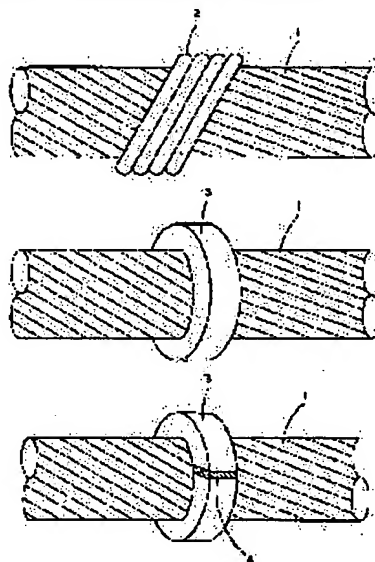
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(54) SNOW-MELTING ALLOY FOR TRANSMISSION LINE, AND WIRE MATERIAL AND RING THEREOF

(57)Abstract:

PURPOSE: To generate a sufficient quantity of heat and prevent snow from being stacked on a transmission line efficiently, by winding an alloy wire material in which one part contains a specific wt.% of Si and the remaining part contains Fe on the transmission line at predetermined intervals and mounting a ring worked with the same alloy on the transmission line at predetermined intervals.

CONSTITUTION: A wire material is formed with an alloy in which one part contains 1 to 10wt.% of Si and the remaining part contains Fe and 0.1 to 2wt.% of Cr or Mn is added, and is spirally wound on a transmission line 1 by a plurality of windings at predetermined intervals. Also, a ring 3 worked with the same alloy is formed and fitted into the transmission line 1 at predetermined intervals, and further a magnetic material 4 having a low Curie point is inserted into a gap formed in one part of the ring 3. Thus, a sufficient heat is obtained due to an iron loss occurring in a magnetic substance made of Fe-Si alloy and snow stacked on the transmission line 1 is melted and damages caused by a breaking of wire of the transmission line 1 or a dropping of ice and snow are prevented. Particularly, when the magnetic material 4 having a low Curie point is also used, the unnecessary increase in temperature in summer is prevented.



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